



#### ABSTRACT OF THE DISCLOSURE

With the objective of suppressing the adverse effect of residual magnetization caused by encode ordering, twelve encode points are defined as a first segment in order of decreasing distances from a center  $C_{yz}$  of a  $K$  space, twelve encode points are next defined as a second segment in order of decreasing distances from the center  $C_{yz}$ , and twelve encode points are defined as a third segment in order of decreasing distances from the center  $C_{yz}$  subsequently to it. Serial numbers are sequentially assigned to the encode points of the first, second, third and fourth quadrants in the first, second and third segments in order of decreasing distances from the center  $C_{yz}$ . Serial numbers are assigned subsequently in a manner similar to the above. Furthermore, the  $K$  space is encoded in order of the serial numbers to collect data.